

## ABSTRACT

This three-dimensional ultrasonographic device is a three-dimensional ultrasonographic device having a matrix sensor 9 composed of a plurality of piezoelectric vibrators which are formed independently and arranged in a matrix, and it generates 3D imaging data based on reflected echoes of an ultrasonic wave obtained from the matrix sensor 9 and processes display images into two-dimensional images. Furthermore, this three-dimensional ultrasonographic imaging device connects a plurality of imaging data that are obtained while the matrix sensor 9 is moved, according to the position of the matrix sensor 9, thereby realizing imaging of a defect 14 for quantitative and intuitive judgment and enabling automatic judgment of the inspection. In addition, in imaging, an area other than an inspection area of the inspection object is masked, which realizes improved image quality.